



MUS. COMP. ZOOL  
LIBRARY

JUL 9 1984

HARVARD  
UNIVERSITY

Volume 20 Number 10 pp. 151-164 20 June 1984

TRANSACTIONS  
OF THE SAN DIEGO  
SOCIETY OF  
NATURAL HISTORY

## Type specimens of amphibians and reptiles in the San Diego Natural History Museum

Gregory K. Pregill and James E. Berrian

Department of Herpetology, San Diego Natural History Museum, San Diego, CA 92112 USA

Publishing a list of type specimens in a collection serves several purposes. For those who compile them, the inventory is a propitious means of revealing the taxonomic and nomenclatural errors and inconsistencies that routinely creep into a collection. For users, the list provides a comprehensive reference to that institution's holdings of primary and secondary types, and serves as a guide to the original literature, perhaps even yielding insights into the nomenclatural history of the taxa.

In generating the present account, we made use of the only previous publication of type specimens of amphibians and reptiles in the San Diego Natural History Museum, compiled by Allan J. Sloan in 1965 (*Transactions San Diego Society of Natural History* (14(1):1-8)). Sloan listed only holotypes, which at the time numbered 48, all of reptiles. To make the present list more comprehensive we have included all paratypic material, and revised the now expanded list of holotypes.

The collection currently includes holotypes of 1 frog, 14 lizards and 41 snakes. As well, there are several hundred paratypes of 24 additional taxa. Locating all secondary types in the collection was a difficult task because many of these specimens had not been so designated in the early years of cataloging, nor were they segregated from the main collection. Subspecies comprise the majority of primary and secondary types, many of which have been synonymized since their original description. Readers familiar with the collections of amphibians and reptiles at the San Diego Natural History Museum are aware that the geographic emphasis favors the Southwest, Baja California and the Gulf of California Islands; this is reflected in the type localities that follow.

For many years the collections of amphibians and reptiles at the San Diego Natural History Museum were closely tied to the activities of Laurence M. Klauber, although the full history extends beyond the Klauber era back to the Society's inception in 1874. Klauber began his herpetological studies as an avocation in 1920, conducting most of his research and maintaining the collections in the basement of his home. By 1960 he had amassed 35 000 specimens. These, as well as his vast library of over 20 000 books and reprints, were donated to the San Diego Society of Natural History, whence they were housed in the Natural History Museum in Balboa Park. At the time of Klauber's death in 1968, the number of specimens of amphibians and reptiles at the museum was over 50 000.

Over the years the collection has had many contributors, among the earliest being the celebrated naturalists of the Southwest, Charles R. Orcutt and Frank Stephens. Later, during the middle third of this century, the collection benefited considerably from the efforts of C. B. Perkins and Charles E. Shaw. Klauber's legendary interest in rattlesnakes alone resulted in an enormous series of *Crotalus* and a substantial representation of reptiles native to the Far West and northern Mexico. Indeed, during the 110-year history of the Society, the museum has benefited from the interests and travels of many individuals. Hence, the collections of amphibians and reptiles are flavored

with series of taxa from, for example, the Galápagos Islands, the Pacific, and the Caribbean.

As early as 1928, Klauber foresaw that someday his collection and that of the museum would merge, and he assigned specimen numbers accordingly so that they would not have to be recatalogued at a future date. Consequently, all specimens originally in the LMK series have the same numbers in the herpetological catalogue of the San Diego Natural History Museum. The collection now has approximately 65 000 specimens which may be broken down taxonomically as follows:

- Amphibians* (Apoda, Caudata, Anura)—18 families, 60 genera, 175 species
- Turtles*—9 families, 34 genera, 80 species
- Lizards* (including amphisbaenians and *Sphenodon*)—17 families, 130 genera, 360 species
- Snakes*—9 families, 195 genera, 400 species

These taxa also encompass nearly 2000 skeletons in roughly the same diversity, and several hundred preserved hemipenes representing 70 species of snakes (mostly *Crotalus*) and lizards.

#### *About This List*

Each species entry begins with the author, date and publication of the original description; the specific page number where the description appears is given parenthetically at the end of that citation. This line is followed by the SDSNH number of the holotype, sex, type locality and the name of the collector and date that the specimen was caught. In nearly all instances, we have tried to preserve the original wording for the type locality. Where potential confusion exists because of orthography or archaic and vague place names, we have clarified them as needed, inside brackets [ ] or at the bottom of the entry under *Remarks*. When only the paratype(s) of a taxon is represented in the SDSNH collection, the holotype and catalogue number of the holding institution is given under *Remarks*.

Each taxon is listed alphabetically by genus, species and subspecies precisely as it was originally designated, that is, irrespective of present usage. For those taxa that have been synonymized or whose nomenclature is currently in doubt, this is so noted under *Remarks* with the name and publication of the first authority or revisor. We have made no nomenclatural decisions per se, and a particular taxon is considered valid unless indicated.

Abbreviations of museums and personal collections are as follows:

- AMNH: American Museum of Natural History
- BYU: Brigham Young University
- CAS: California Academy of Sciences
- CAS-SU: California Academy of Sciences—Stanford University collection
- CM: Carnegie Museum
- EHT: Edward H. Taylor collection\*
- FMNH: Field Museum of Natural History
- LACM: Los Angeles County Natural History Museum
- MCZ: Museum of Comparative Zoology, Harvard University
- SDSNH: San Diego Society of Natural History
- SU: Stanford University Natural History Museum\*
- T-S: Edward H. Taylor and Hobart M. Smith, University of Kansas\*
- UIMNH: University of Illinois, Museum of Natural History
- UMMZ: University of Michigan, Museum of Zoology
- USNM: National Museum of Natural History

---

\* Specimens from these collections have been dispersed to other institutions.

## ANURA

***Bufo exsul*** Myers (1942)

Occ. Papers Mus. Zool. Univ. Michigan 460:1–13 (p. 3).

*Paratypes.*—SDSNH 29098 and 29099 Deep Springs, Inyo Co., California.

*Remarks.*—= *Bufo boreas exsul* according to Stebbins (1962, Amphibians of Western North America, Univ. Calif. Press). Holotype: UMMZ 83357 a very large female.

***Hyla regilla cascadae*** Jameson, Mackay and Richmond (1966)

Proc. California Acad. Sci. 4th ser. 33(19):551–620 (p. 602).

*Paratypes.*—SDSNH 44971–44987 ½ mi S of Bend, Deschutes Co., Oregon.

*Remarks.*—Holotype: CAS 101038 an adult male.

***Hyla regilla deserticola*** Jameson, Mackey and Richmond (1966)

Proc. California Acad. Sci. 4th ser. 33(19):551–620 (p. 582).

*Holotype.*—SDSNH 54176 an adult male; San Borjas, Baja California Norte, Mexico. By David L. Jameson, November 25, 1961.

*Paratypes.*—SDSNH 54166–54175 data same as for Holotype.

*Remarks.*—= *Hyla regilla hypochondriaca* according to Duellman (1970, Univ. Kansas Mus. Nat. Hist. Monog. No. 1:487). San Borjas reads San Borja on recent maps.

***Hyla regilla pacifica*** Jameson, Mackey and Richmond (1966)

Proc. California Acad. Sci. 4th ser. 33(19):551–620 (p. 591).

*Paratypes.*—SDSNH 53514–53529 4 mi S of Waldport, Lincoln Co., Oregon.

*Remarks.*—Holotype: CAS 101007 an adult male.

***Hyla regilla palouse*** Jameson, Mackay and Richmond (1966)

Proc. California Acad. Sci. 4th ser. 33(19):551–620 (p. 599).

*Paratypes.*—SDSNH 44715–44718 6 mi SE of La Grande, Union Co., Oregon.

*Remarks.*—Holotype: CAS 100982 an adult male.

***Hyla regilla sierrae*** Jameson, Mackey and Richmond (1966)

Proc. California Acad. Sci. 4th ser. 33(19):551–620 (p. 605).

*Paratypes.*—SDSNH 53835–53841 1¼ mi SSE of Tioga Pass Ranger Station, E entrance to Yosemite National Park, Mariposa Co., California.

*Remarks.*—Holotype: CAS 100991 an adult male.

## SAURIA

***Anniella geronimensis*** Shaw (1940)

Trans. San Diego Soc. Nat. Hist. 9(24):225–228 (p. 225).

*Holotype.*—SDSNH 7543 an adult female; San Geronimo Island, Lower California [Norte], Mexico. By Margaret [Mrs. Griffing] Bancroft, March 28, 1932.

*Paratypes.*—SDSNH 7542 data same as for Holotype.

*Remarks.*—= *Anniella pulchra* according to Hunt (1983, Copeia (1):79–89).

***Anolis rivalis*** Williams (1984)

Breviora 478:1–22 (p. 7).

*Paratype.*—SDSNH 31163 “Port Utria,” [south of Punta Solano, Chocó] Colombia.

*Remarks.*—Holotype: LACM 42124 an adult male.

***Coleonyx variegatus abbotti*** Klauber (1945)

Trans. San Diego Soc. Nat. Hist. 10(11):133–216 (p. 154).

*Holotype.*—SDSNH 34790 an adult male; Proctor Valley, San Diego Co., California. By William Moore, February 28, 1942.

*Paratypes.*—As follows: California: Los Angeles Co.: SDSNH 2011 San Francisco Plant 2. Riverside Co.: SDSNH 2725 Moreno. San Diego Co.: SDSNH 30 Cot-

tonwood; SDSNH 843 Foster; SDSNH 16702 Rincon; SDSNH 16988, 32817, 34786 Mission Gorge; SDSNH 16989 Jamul; SDSNH 17012 De Luz (says "Sentenac Canyon" in catalogue); SDSNH 21249 El Capitan; SDSNH 24050 San Pasqual; SDSNH 25303, 34666 Jacumba; SDSNH 27770 Foot Agua Tibia Mt.; SDSNH 32797 Pala; SDSNH 32821–32822 Black Mtn. near La Mesa. Baja California Norte, Mexico: SDSNH 2593 Ensenada; SDSNH 5265–5266, 15970–15971, 27726, 30295 Cedros Island; SDSNH 6553 65 mi SE of Tecate; SDSNH 24390 San José (lat. 32°).

***Coleonyx variegatus bogerti* Klauber (1943)**

Trans. San Diego Soc. Nat. Hist. 10(11):133–216 (p. 176).

*Holotype*.—SDSNH 32486 an adult male; Xavier, Pima Co., Arizona. By Lee W. Arnold, July 17, 1939.

*Paratypes*.—None designated.

***Coleonyx variegatus utahensis* Klauber (1943)**

Trans. San Diego Soc. Nat. Hist. 10(11):133–216 (p. 171).

*Holotype*.—SDSNH 35792 an adult male; Watercress Spring, Washington Co., Utah. By Dr. Ross Hardy, April 16, 1941.

*Paratypes*.—SDSNH 36021–36024 data same as for Holotype.

***Phyllodactylus angelensis* Dixon (1966)**

Proc. California Acad. Sci. 4th ser. 33(13):415–452 (p. 444).

*Holotype*.—SDSNH 19996 an adult male; north end of Isla Angel de la Guarda, Baja California [Norte], Mexico. By Allan J. Sloan, March 22, 1963.

*Paratype*.—SDSNH 50851 Isla Pond, [Baja California Norte, Mexico].

***Phyllodactylus apricus* Dixon (1966)**

Proc. California Acad. Sci. 4th ser. 33(13):415–452 (p. 450).

*Holotype*.—SDSNH 44623 an adult male; Isla Las Animas, Baja California [Sur, Mexico]. By Chris Parrish and G. E. Lindsay, June 27, 1964.

*Paratypes*.—SDSNH 44620–44622, 44624, 50830–50842, 50844–50849 data same as for Holotype.

***Phyllodactylus bugastrolepis* Dixon (1966)**

Proc. California Acad. Sci. 4th ser. 33(13):415–452 (p. 447).

*Paratypes*.—SDSNH 44604–44607, 44611–44613, 50792, 50793 Isla Catalina, Baja California [Sur, Mexico].

*Remarks*.—Holotype: CAS 98485 an adult female.

***Phyllodactylus homolepidurus nolascoensis* Dixon (1964)**

New Mexico State Univ. Sci. Bull. 64(1):1–139 (p. 42).

*Paratypes*.—SDSNH 6840 and 6841 Isla San Pedro Nolasco, Sonora, Mexico.

*Remarks*.—Holotype: CAS 50552 an adult male.

***Phyllodactylus partitus* Dixon (1966)**

Proc. California Acad. Sci. 4th ser. 33(13):415–452 (p. 445).

*Paratypes*.—SDSNH 6834–6836, 39258, 39649, 40508, 50820–50822 Isla Partida (N), Baja California [Norte, Mexico].

*Remarks*.—Holotype: CAS 98429 an adult male.

***Phyllodactylus santacruzensis* Dixon (1966)**

Proc. California Acad. Sci. 4th ser. 33(13):415–452 (p. 449).

*Paratypes*.—SDSNH 50872, 50873 Isla Santa Cruz, Baja California [Sur, Mexico].

*Remarks*.—Holotype: CAS 98468 an adult female.

***Phyllodactylus xanti acorioides* Dixon (1966)**

Proc. California Acad. Sci. 4th ser. 33(13):415–452 (p. 442).

*Paratypes*.—SDSNH 50827–50829 Isla San Diego, Baja California [Sur, Mexico].

*Remarks.*—=*Phyllodactylus nocticulus acorius* according to Murphy (1983, Occ. Papers California Acad. Sci. 137:1–48). Holotype: CAS 98451 an adult male.

***Phyllodactylus xanti angulus* Dixon (1966)**

Proc. California Acad. Sci. 4th ser. 33(13):415–452 (p. 433).

*Paratypes.*—SDSNH 44677, 44678, 50868, 50869 Isla Salsipuedes, Baja California [Norte, Mexico]; SDSNH 44238, 44239, 50833, 50856–50859 [Isla] San Lorenzo, [Baja California Norte, Mexico].

*Remarks.*—=*Phyllodactylus nocticulus angulus* according to Murphy (1983, Occ. Papers California Acad. Sci. 137:1–48). Holotype: CAS 98477 an adult male.

***Phyllodactylus xanti circus* Dixon (1966)**

Proc. California Acad. Sci. 4th ser. 33(13):415–452 (p. 439).

*Holotype.*—SDSNH 50814 an adult female; Isla Ildefonso [Baja California Sur, Mexico]. By Charles E. Shaw, April 2, 1962.

*Paratypes.*—SDSNH 50809–50812, 50815–50817 data same as for Holotype.

*Remarks.*—=*Phyllodactylus nocticulus circus* according to Murphy (1983, Occ. Papers California Acad. Sci. 137:1–48).

***Phyllodactylus xanti estebanensis* Dixon (1966)**

Proc. California Acad. Sci. 4th ser. 33(13):415–452 (p. 437).

*Paratypes.*—SDSNH 50852 and 50853 Isla Tiburon [Gulf of California, Mexico]; 50870 and 50871 Isla San Estéban [Gulf of California, Mexico].

*Remarks.*—=*Phyllodactylus nocticulus estebanensis* according to Murphy (1983, Occ. Papers California Acad. Sci. 137:1–48). Holotype: CAS 98481 an adult male. Isla Tiburon and Isla Estéban belong to the state of Sonora.

***Phyllodactylus xanti nocticulus* Dixon (1964)**

New Mexico State Univ. Sci. Bull. 64(1):1–139 (p. 55).

*Holotype.*—SDSNH 34824 an adult male; Agua Caliente Hot Springs, San Diego Co., California. By Laurence M. Klauber [Charles Shaw and Paul Breese]. Preserved March 8, 1942.

*Paratypes.*—From San Diego County, as follows: SDSNH 2952, 18633, 32955, 35476–35490, 40073 Yaqui Well; SDSNH 18632, 33247 Sentenac Canyon; SDSNH 18921 Yaqui Pass; SDSNH 33672–33674 Palm Canyon; SDSNH 34825–34827, 43786, 43787 Topotypes; SDSNH 38034, 38041 4 mi W of Vallecitos Stage Station.

*Remarks.*—=*Phyllodactylus nocticulus nocticulus* according to Murphy (1983, Occ. Papers California Acad. Sci. 137:1–48).

***Phyllodactylus xanti sloani* Bostic (1972)**

Trans. San Diego Soc. Nat. Hist. 16(10):237–263 (p. 252).

*Holotype.*—SDSNH 45895 an adult female; 23.5 mi SE of El Rosario, Baja California Norte, Mexico. By Dennis L. Bostic, March 31, 1969.

*Paratypes.*—All from Baja California Norte as follows: SDSNH 45896 1.8 mi NW of Puerto de San Carlos; SDSNH 45897 and 45898 5.4 mi W of Punta Canoas; SDSNH 45899 and 45900 Arroyo San José; SDSNH 45901–45907 Las Palomas; SDSNH 45908 El Cardon; SDSNH 45909–45912 5 mi N of San Javier.

*Remarks.*—=*Phyllodactylus nocticulus sloani* according to Murphy (1983, Occ. Papers California Acad. Sci. 137:1–48). SDSNH 45912 was “sent to Mexico, 1971” [presumably to Fauna Silvestre, Mexico City].

***Sauromalus australis* Shaw (1945)**

Trans. San Diego Soc. Nat. Hist. 10(15):269–306 (p. 286).

*Holotype.*—SDSNH 30170 an adult male; San Francisquito Bay, Baja California, Mexico. By Robert S. Hoard, July 30, 1938.

*Paratypes.*—All are from Baja California Sur as follows: SDSNH 17707 Comondú; SDSNH 17708 La Paz; SDSNH 30168 Loreto; SDSNH 30169 33 mi N of Canipole.

***Sauromalus klauberi* Shaw (1941)**

Trans. San Diego Soc. Nat. Hist. 9(28):285–288 (p. 285).

*Holotype*.—SDSNH 6859 an adult male; Santa Catalina Island, Gulf of California [Baja California Sur], Mexico. By J. R. Pemberton, December 14, 1931.

*Paratypes*.—SDSNH 6860 and 6861 data same as for Holotype.

*Remarks*.—= *Sauromalus ater klauberi* according to Avery and Tanner (1964, BYU Science Bull. 5(3):1).

***Sauromalus obesus tumidus* Shaw (1945)**

Trans. San Diego Soc. Nat. Hist. 10(15):269–306 (p. 292).

*Holotype*.—SDSNH 27323 an adult male; Telegraph Pass, Gila Mountains, Yuma Co., Arizona. By Laurence M. Klauber, June 15, 1937.

*Paratypes*.—SDSNH 8613, 27551, 33170–33175, 33224, 33225, 34141, 35090 data same as for Holotype (Gila Mountains, Arizona).

***Uma notata cowlesi* Heifetz (1941)**

Copeia 1941(2):99–111 (p. 104).

*Paratypes*.—SDSNH 16460–16464 Punta Peñasco, Sonora, Mexico.

*Remarks*.—= *Uma notata rufopunctata* Cope according to Norris (1958, Bull. Amer. Mus. Nat. Hist. 114(3):251–326). Holotype: CAS 53370 an adult male.

***Uta stansburiana klauberi* Lowe and Norris (1955)**

Herpptologica 11(2):89–96 (p. 91).

*Holotype*.—SDSNH 6642 an adult male; San Estéban Island, Gulf of California, Sonora, Mexico. By J. R. Pemberton, January 11, 1932.

*Paratypes*.—SDSNH 3968–3971, 6640, 6641 San Estéban Island, Sonora, Mexico.

*Remarks*.—= *Uta stansburiana taylori* Smith according to Ballinger and Tinkel (1972, Misc. Pub. Mus. Zool. Univ. Michigan (145):1–83).

***Xantusia arizonae* Klauber (1931)**

Trans. San Diego Soc. Nat. Hist. 7(1):1–16 (p. 3).

*Holotype*.—SDSNH 5433 an adult female; 1 mi S of Yarnell, Yavapai Co., Arizona. By Philip M. Klauber and Laurence M. Klauber, August 21, 1931.

*Paratypes*.—SDSNH 5434–5438 data same as for Holotype; SDSNH 5451 and 5452 born (dead) of Holotype in captivity; SDSNH 5450 unborn embryo from SDSNH 5436; SDSNH 5453 unborn embryo from SDSNH 5434.

*Remarks*.—= *Xantusia vigilis arizonae* according to Bezy (1967 Copeia (3):653–661). SDSNH 5434 was sent to J. R. Slevin at the California Academy of Sciences December 14, 1931.

## SERPENTES

***Arizona elegans blanchardi* Klauber (1946)**

Trans. San Diego Soc. Nat. Hist. 10(17):311–398 (p. 328).

*Paratype*.—SDSNH 35343 Schramm, Yuma Co., Colorado.

*Remarks*.—Holotype: SU 10393 a young adult male; now CAS-SU 10393.

***Arizona elegans candida* Klauber (1946)**

Trans. San Diego Soc. Nat. Hist. 10(17):311–398 (p. 364).

*Holotype*.—SDSNH 34191 an adult male; Kramer Hills, 6 mi S of Kramer Junction on US 395, San Bernardino Co., California. By James Deuel, June 16, 1941.

*Paratypes*.—All are from near the type locality in San Bernardino Co., California, as follows: Adelanto: SDSNH 27251, 34187, 34190 16 mi N of; SDSNH 28848, 33980 8 mi N of; SDSNH 31917 12 mi S of; SDSNH 31941, 31942, 35109 3 mi N of; SDSNH 33323 6 mi SW of; SDSNH 33812 6 mi N of; SDSNH 33981, 35093 4 mi S of; SDSNH 33982 14 mi N of; SDSNH 34107 13 mi N of; SDSNH 34150, 35594 2 mi N of. Kramer Hills: SDSNH 28846, 31700, 33795, 35149. Kramer Junction: SDSNH 31766

5 mi N of; SDSNH 31940, 33832, 33983, 34019 8 mi S of; SDSNH 31959 20 mi S of; SDSNH 33826, 34189 3 mi S of; SDSNH 33888, 34164, 34192 5 mi S of; SDSNH 33975, 34017, 35536 7 mi S of; SDSNH 33977, 33978 10 mi S of; SDSNH 33979 12 mi S of; SDSNH 34165 6 mi of; SDSNH 34184 1 mi W of; SDSNH 34185 1 mi E of; SDSNH 34186 11 mi S of; SDSNH 35151, 35537 9 mi S of SDSNH 35654 6.5 mi S of.

#### *Arizona elegans eburnata* Klauber (1946)

Trans. San Diego Soc. Nat. Hist. 10(17):311-393 (p. 350).

*Holotype*.—SDSNH 33094 a young male; Benson's Dry Lake, San Diego Co., California. By James Deuel, June 5, 1940 [preserved].

*Paratypes*.—All are from near the type locality in San Diego Co., California, as follows: SDSNH 4454, 23854, 23914, 23915, 25437, 25438, 26914, 26939-26942, 27308, 27383, 27405, 29300, 33094, 33095, 17026 Topotypes; SDSNH 4862 Beatty Ranch, Borrego Valley; SDSNH 5136, 21108, 21121 Borrego Valley; SDSNH 23024, 23774-23776, 23852, 23853, 26814, 29301, 29487, 32035 The Narrows; SDSNH 23773 5 mi E of The Narrows; SDSNH 26732 2 mi S of Borrego Post Office; SDSNH 27331 3 mi W of Benson's Dry Lake.

*Remarks*.—SDSNH 4454, 17026, 21108 were exchanged with H. M. Smith, January 14, 1957 and are presumed to be at the University of Illinois Museum of Natural History. Klauber also gave as paratypes SDSNH 26056 and 26057, but these are actually specimens of *Pituophis melanoleucus deserticola* and *Crotalus viridis oreganus*, respectively; the source of this error is unknown.

#### *Arizona elegans noctivaga* Klauber (1946)

Trans. San Diego Soc. Nat. Hist. 10(17):311-398 (p. 343).

*Holotype*.—SDSNH 34188 a young adult male; 8 mi N of Owlshead, Pinal Co., Arizona. By Charles E. Shaw and Laurence M. Klauber, May 31, 1941.

*Paratypes*.—All are from Arizona, as follows: Gila Co.: SDSNH 34438 7 mi SE of Globe. Maricopa Co.: SDSNH 15835, 23925, 23926 Sentinel; SDSNH 25829, 26010 Mesa; SDSNH 26913 5 mi S of Wickenburg; SDSNH 26943 Cactus Gardens; SDSNH 32781 Gila Bend; SDSNH 34331 Stanwix. Pima Co.: SDSNH 13724, 29222 Tucson; SDSNH 17949 11 mi N of Tucson; SDSNH 17950, 17951 4½ mi N of Tucson; SDSNH 17952 2 mi N of Tucson; SDSNH 27177 13 mi N of Tucson; SDSNH 27178 4 mi N of Sahuarita; SDSNH 32293 Martinez Hill; SDSNH 32521 11 mi S of Tucson; SDSNH 32714 2 mi NE of Tanque Verde Ranch; SDSNH 34018 14 mi N of Tucson. Pinal Co.: SDSNH 21492, 21493 Picacho; SDSNH 27180 Florence; SDSNH 32323 8 mi W of Casa Grande; SDSNH 34104 3 mi W of Superior; SDSNH 34332 Oracle Junction. Yavapai Co.: SDSNH 17623 1 mi S of Congress Junction. Yuma Co.: SDSNH 34526 5 mi E of Salome.

#### *Arizona elegans pacata* Klauber (1946)

Trans. San Diego Soc. Nat. Hist. 10(17):311-398 (p. 379).

*Holotype*.—SDSNH 17652 an adult male; Santo Domingo (lat. 25°30'N), Baja California Sur, Mexico. By Frank F. Gander, November 16, 1941.

#### *Arizona elegans philipi* Klauber (1946)

Trans. San Diego Soc. Nat. Hist. 10(17):311-398 (p. 333).

*Holotype*.—SDSNH 34456 an adolescent male; 10 mi E of Winslow, Navajo Co., Arizona. By Charles E. Shaw and Carl Engler, July 29, 1941.

*Paratypes*.—SDSNH 20990 Two Guns, Coconino Co., Arizona; SDSNH 34426 data same as for Holotype.

#### *Charina bottae umbratica* Klauber (1943)

Trans. San Diego Soc. Nat. Hist. 10(7):83-90 (p. 83).

*Holotype*.—SDSNH 12101 an immature male; Fern Valley, near Idyllwild, Riverside Co., California. By Clyde Searl, July 1, 1929.

*Remarks.*—The validity of *C. b. umbratica* as a subspecies has been questioned on several occasions, whereas in other instances full species status has been proposed. The taxonomic history is treated by Stewart (1977, SSAR Cat. Amer. Amph. Rept. 205.2).

***Chilomeniscus stramineus esterensis* Hoard (1939)**

Pomona College Jour. Ent. and Zool. 31(4):45–46 (p. 45).

*Holotype.*—SDSNH 30368 an adult male; Estero[s] Salina, Lower [Baja] California, Mexico [24°36'N, 111°49'W]. By R. S. Hoard, July 10, 1938.

*Paratypes.*—SDSNH 30364–30367, 30369, 30370 data same as for Holotype.

***Chionactis occipitalis talpina* Klauber (1951)**

Trans. San Diego Soc. Nat. Hist. 11(9):141–204 (p. 172).

*Paratypes.*—SDSNH 39520, 39521 10 mi N of Goldfield, Esmerelda Co., Nevada.

*Remarks.*—Holotype: CAS 81364 an adult male.

***Chionactis palarostris organica* Klauber (1951)**

Trans. San Diego Soc. Nat. Hist. 11(9):141–204 (p. 178).

*Holotype.*—SDSNH 40673 an adult male; on the Sonoyta-Ajo road, 9 mi N of the U.S.-Mexican border, in Organ Pipe Cactus National Monument, Pima Co., Arizona. By William R. Supernaugh and Grover E. Steele, May 22, 1950.

***Crotalus cerastes cercobombus* Savage and Cliff (1953)**

Nat. Hist. Misc. 119:1–7 (p. 2).

*Paratypes.*—All from Arizona, as follows: Maricopa Co.: SDSNH 979–981 18 mi W of Phoenix; SDSNH 17072 10 mi E of Gila Bend; SDSNH 22410–22412 Desert Wells; SDSNH 23879, 23888–23890, 25553–25555, 25854–25857 near Mesa; SDSNH 26915 1 mi S of Morristown; SDSNH 39082 26 mi N of Ajo; SDSNH 39088 1 mi W of Tartron [sic] (see *Remarks*); SDSNH 40893 vicinity of Phoenix. Pima Co.: SDSNH 2324, 2325 Sells; SDSNH 38660 Sonoita (see *Remarks*). Pinal Co.: SDSNH 17068–17071, 17073 3 mi SE of Picacho; SDSNH 25499 5 mi W of Casa Grande; SDSNH 41110–41116, 41362, 41363 4 mi E of Coolidge; SDSNH 41241 4 mi S of Coolidge.

*Remarks.*—Holotype: SU 7287 an adult male; now CAS-SU 7287. The correct spelling is Tarton. Sonoita is in Santa Cruz Co.

***Crotalus cerastes laterorepens* Klauber (1944)**

Trans. San Diego Soc. Nat. Hist. 10(8):91–126 (p. 94).

*Holotype.*—SDSNH 34074 an adult male; The Narrows, San Diego Co., California. By Cyrus B. Perkins and Charles Shaw, June 6, 1941.

*Paratypes.*—All are from within a 13-mile radius of the type locality as follows: SDSNH 1762, 1858, 2209, 2210, 4571, 4572, 4645–4647, 4827, 4875, 4931, 4958, 5052–5055, 5173–5175, 9507, 21098, 21426, 22275, 22357, 23009, 23233, 23640, 23858, 23860, 23917, 23954–23956, 23998, 24006, 24019, 24020, 25423, 25445, 26729–26731, 26823, 26847, 26848, 26857, 26865, 26866, 26937, 26938, 27240, 28113, 28228, 28682, 28683, 28728, 28750, 29085, 29118, 29119, 29271, 29277, 29898, 30719, 31930, 31999, 32307, 32977, 32978, 33044, 33058, 33059, 33123, 33333–33335, 33342, 34035, 34176–34179, 34351, 34570, 35179, 35187, 35188, 35305, 35557–35559, 35597, 35634, 35635.

***Crotalus confluentus abyssus* Klauber (1930)**

Trans. San Diego Soc. Nat. Hist. 6(3):95–144 (p. 114).

*Holotype.*—SDSNH 2216 an adult male; Tanner Trail, 300 feet below south rim of the Grand Canyon, Coconino Co., Airzona. By E. D. McKee, September 15, 1929.

*Paratypes.*—None designated.

*Remarks.*—= *Crotalus viridis abyssus* according to Klauber (1936, Trans. San Diego Soc. Nat. Hist. 8(20):185–276).

***Crotalus confluentus kellyi*** Amaral (1929)

Bull. Antivenin Inst. Amer. 2(4):86–97 (p. 91).

*Holotype*.—SDSNH 194 a male; Needles [San Bernardino Co.], California. By Mr. O. R. West, July 11, 1926.

*Paratype*.—SDSNH 195 data same as for Holotype.

*Remarks*.—= *Crotalus s. scutulatus* according to Klauber (1930, Trans. San Diego Soc. Nat. Hist. 6(3):95–144).

***Crotalus confluentus lutosus*** Klauber (1930)

Trans. San Diego Soc. Nat. Hist. 6(3):95–144 (p. 100).

*Holotype*.—SDSNH 1814 a young adult male; 10 mi NW of Abraham on the road to Joy, Millard Co., Utah. By Cyrus B. Perkins, May 12, 1929.

*Paratypes*.—SDSNH 1800–1813, 1815, 1816 20 mi NW of Delta, Millard Co., Utah.

*Remarks*.—= *Crotalus viridis lutosus* according to Klauber (1936, Trans. San Diego Soc. Nat. Hist. 8(20):195–276).

***Crotalus confluentus nuntius*** Klauber (1935)

Trans. San Diego Soc. Nat. Hist. 8(13):75–90 (p. 78).

*Holotype*.—SDSNH 3105 an adult male; Canyon Diablo, Coconino Co., Arizona. By R. L. Borden, August 9, 1930.

*Remarks*.—= *Crotalus viridis nuntius* according to Klauber (1936, Trans. San Diego Soc. Nat. Hist. 8(20):185–276).

***Crotalus durissus culminatus*** Klauber (1952).

Bull. Zool. Soc. San Diego 26:1–143 (p. 67).

*Paratype*.—SDSNH 43403 Hacienda El Sabino, near Uruapan, Michoacan, Mexico.

*Remarks*.—Holotype: FMNH 126616 (formerly EHT 5224) a juvenile female. SDSNH 43403 was formerly EHT 5233.

***Crotalus mitchelli angelensis*** Klauber (1963)

Trans. San Diego Soc. Nat. Hist. 13(5):73–80 (p. 75).

*Holotype*.—SDSNH 51994 an adult male; 4 mi SE of Refugio Bay, Isla Angel de la Guarda, Gulf of California, Mexico. By Dr. Reid Moran, March 22, 1963.

*Paratypes*.—SDSNH 19717, 19718, 19990–19995, 44358, 51991–51993, 51995, 51996. All are from Isla Angel de la Guarda.

*Remarks*.—Endemic to Isla Angel de la Guarda.

***Crotalus mitchellii* [sic] *muertensis*** Klauber (1949)

Trans. San Diego Soc. Nat. Hist. 11(6):61–116 (p. 97).

*Holotype*.—SDSNH 37447 an adult male; El Muerto Island, Gulf of California. Mexico. By Charles H. Lowe, Jr., June 6 or 7, 1946.

*Paratypes*.—SDSNH 37442–37444, 37446, 37448, 37449, 38040 El Muerto Island.

*Remarks*.—El Muerto Island = Isla Miramar in the San Luis group, Baja California Norte. The correct spelling is *mitchelli*.

***Crotalus molossus estebanensis*** Klauber (1949)

Trans. San Diego Soc. Nat. Hist. 11(6):61–116 (p. 104).

*Holotype*.—SDSNH 26792 an adult female; San Estéban Island, Gulf of California, Mexico. By an expedition under Capt. G. Allan Hancock, April 17, 1937 (preserved).

*Remarks*.—Endemic to Isla San Estéban.

***Crotalus ruber lorenzoensis*** Radcliffe and Maslin (1975)

Copeia 1975(3):490–493 (p. 490).

*Holotype*.—SDSNH 46009 an adult male; San Lorenzo Sur Island, Gulf of California, Baja California Norte, Mexico. By Charles E. Shaw, May 23, 1966.

*Paratypes*.—SDSNH 6605, 45052, 45053, all from San Lorenzo Island Sur.  
*Remarks*.—Endemic to San Lorenzo.

***Crotalus triseriatus anahuacus* Gloyd (1940)**

Chicago Acad. Sci. Special Publ. No. 4:1-270 (p. 91).

*Paratypes*.—SDSNH 43404 43 km N of Tres Cumbres, Morelos, Mexico.

*Remarks*.—Holotype: MCZ 33681 a female. SDSNH 43404 was formerly T-S 5492.

***Crotalus triseriatus aquilus* Klauber (1952)**

Bull. Zool. Soc. San Diego 26:1-143 (p. 24).

*Paratypes*.—SDSNH 3496-3501, 6575-6577 vicinity of Alvarez, San Luis Potosi, Mexico (Topotypes).

*Remarks*.—= *Crotallus aquilus* according to Harris and Simmons (1978, Bull. Maryland Herp. Soc. 14(3):105-211). Holotype: MCZ 27843 an adult female.

***Crotalus vegrandis* Klauber (1941)**

Trans. San Diego Soc. Nat. Hist. 9(30):333-335 (p. 334).

*Paratypes*.—SDSNH 34607 Maturin Savannah, near Uracoa Monagas, Venezuela.

*Remarks*.—Holotype: CM 17384 an adult male. SDSNH 34607 was formerly CM 17385.

***Crotalus viridis caliginis* Klauber (1949)**

Trans. San Diego Soc. Nat. Hist. 11(6):61-116 (p. 90).

*Holotype*.—SDSNH 2800 an adult male; South Coronado Island off the northwest coast of Baja California, Mexico. By E. H. Quayle, June 2, 1930.

*Paratypes*.—SDSNH 2801-2804, 4924-4926, 7538-7540, 11177, 11178, 13711-13715, 20077, 20078 “All probably came from South Coronado Island, Baja California Norte, Mexico.”

*Remarks*.—Known only from the type locality.

***Crotalus willardi meridionalis* Klauber (1949)**

Trans. San Diego Soc. Nat. Hist. 11(8):121-140 (p. 131).

*Holotype*.—SDSNH 6569 an adult female; Coyotes [“on the railroad to El Sato”], elevation 8000', Durango, Mexico. By Edmund Heller and Charles M. Barber, August 1904.

*Remarks*.—SDSNH 6569 was one of two specimens obtained from the Field Museum, both of which were numbered FMNH 1493.

***Hypsiglena nuchalatus* W. Tanner (1943)**

Great Basin Nat. 4(1 & 2):49-54 (p. 49).

*Paratypes*.—SDSNH 20233, 20293, 22501 Visalia, Tulare Co., California.

*Remarks*.—= *Hypsiglena torquata nuchulata* according to Bogert and Oliver (1945, Bull. Amer. Mus. Nat. Hist. 83(6):297-426 (p. 381)). Holotype: BYU 3008 a small female.

***Hypsiglena ochrorhynchus* [sic] *klauberi* W. Tanner (1944)**

Great Basin Nat. 5(3 & 4):25-92 (p. 71).

*Holotype*.—SDSNH 20228 a male; South Coronado [=Coronado] Island, Lower California [Baja California Norte]. By Philip M. Klauber, June 11, 1933.

*Remarks*.—= *Hypsiglena torquata klauberi* according to Bogert and Oliver (1945, Bull. Amer. Mus. Nat. Hist. 83(6):297-426). A review of the nomenclatural problem surrounding *ochrorhyncha* Cope vs. *torquata* Günther is given by Hardy and McDiarmid (1969:169, Univ. Kansas Publ. Mus. Nat. Hist. 18(3):39-252).

***Hypsiglena ochrorhynchus* [sic] *tortugaensis* W. Tanner (1944)**

Great Basin Nat. 5(3-4):25-92 (p. 69).

*Paratypes*.—SDSNH 4074 Tortuga Island [Baja California Sur, Mexico].

*Remarks.*—=*Hypsiglena torquata tortugaensis* according to Bogert and Oliver (1945, Bull. Amer. Mus. Nat. Hist. 83(6):297–426). Holotype: CAS 51460 a female (by inference). See also *Remarks* under *H. o. klauberi*.

***Hypsiglena torquata catalinae* W. Tanner (1966)**

Trans. San Diego Soc. Nat. Hist. 14(15):189–196 (p. 192).

*Holotype.*—SDSNH 44680 an adult male; Santa Catalina Island, approximately 25°38'N, 110°47'W, Gulf of California, Baja California [Sur], Mexico. By George E. Lindsay, June 25, 1964.

*Paratypes.*—SDSNH 44376, 44681 Topotypes.

***Lampropeltus zonata pulchra* Zweifel (1952)**

Copeia 1952(3):152–168 (p. 162).

*Holotype.*—SDSNH 38667 an adult male; near Crater Camp [450 ft], Santa Monica Mountains, Los Angeles Co., California.

*Remarks.*—Date and collector unknown. Apparently received from the San Diego Zoo, preserved August 2, 1947.

***Leptotyphlops humilis cahuilae* Klauber (1931)**

Trans. San Diego Soc. Nat. Hist. 6(23):333–352 (p. 339).

*Holotype.*—SDSNH 2637 an adult; Yaqui Well by the County Road Camp, San Diego Co., California. By Laurence M. Klauber, May 15, 1930.

*Paratypes.*—None designated.

*Remarks.*—Sex of Holotype not given.

***Leptotyphlops humilis lindsayi* Murphy (1975)**

Proc. California Acad. Sci. ser. 4, 40(5):93–107 (p. 96).

*Holotype.*—SDSNH 44386 an adult female; Marquer Bay, Isla Carmen, Baja California (Sur), Mexico. By Charles E. Shaw and George E. Lindsay, April 4, 1962.

*Remarks.*—Known only from Holotype.

***Lichanura roseofusca gracia* Klauber (1931)**

Trans. San Diego Soc. Nat. Hist. 6(20):305–318 (p. 307).

*Holotype.*—SDSNH 2995 a young female; Randsburg, Kern Co., California. By Lucile Rector, June, 1930.

*Remarks.*—=*Lichanura trivirgata gracia* according to Miller and Stebbins (1964: 189 The Lives of Desert Animals in Joshua Tree Nat'l Monument, Univ. Calif. Press vi + 452 p.) and others since, all without comment. For a discussion see Yingling (1982, SSAR Cat. Amer. Amph. Rept. 294.1).

***Masticophis bilineatus lineolatus* Hensley (1950)**

Trans. Kansas Acad. Sci. 53(2):270–288 (p. 272).

*Holotype.*—SDSNH 43402 an adult male; 12.9 mi S and 5 mi E of Ajo, Pima Co., Arizona.

*Remarks.*—SDSNH 43402 was formerly UIMNH 5611.

***Masticophis bilineatus stlevini* Lowe and Norris (1955)**

Herpetological 11(2):89–96 (p. 93).

*Holotype.*—SDSNH 3826 an adult female; San Estéban Island, Gulf of California, Sonora, Mexico. By Mrs. Griffing [Margaret] Bancroft, April 18, 1930.

*Paratype.*—SDSNH 41571 San Estéban Island, Gulf of California, Sonora, Mexico.

***Phyllorhynchus browni lucidus* Klauber (1940)**

Trans. San Diego Soc. Nat. Hist. 9(20):195–214 (p. 202).

*Holotype.*—SDSNH 28819 a juvenile female; Enchanted Valley, 7 mi W of Cave Creek, Maricopa Co., Arizona. By V. Housholder, May 21, 1938.

***Phyllorhynchus decurtatus nubilus* Klauber (1940)**

Trans. San Diego Soc. Nat. Hist. 9(20):195–214 (p. 197).

*Holotype*.—SDSNH 32493 an adult male; Xavier (Weisner's Ranch), Pima Co., Arizona. By Lee Arnold, July 16, 1939.

*Paratypes*.—From Arizona as follows: Pima Co.: SDSNH 29216 2 mi N of San Xavier Mission; SDSNH 29287 4 mi N of San Xavier Mission; SDSNH 32273 Ajo Junction (Escuela); SDSNH 32289 4 mi S of Ajo Junction; SDSNH 32290 2 mi S of Ajo Junction near Tucson; SDSNH 32468 east base of "A" Mountain; SDSNH 32494 5 mi N of Tucson. Pinal Co.: SDSNH 32274 26 mi N of Tucson.

*Remarks*.—Klauber noted in his catalogue that SDSNH 29287 and 32468 were "traded to Slevin, 1941"; these are now CAS specimens.

***Phyllorhynchus decurtatus perkinsi* Klauber (1935)**

Bull. Zool. Soc. San Diego 12:1-31 (p. 11).

*Holotype*.—SDSNH 23757 an adult male; [Benson's] Dry Lake 3 mi W of Imperial Co. Line on Narrows, Kane Springs Road, San Diego Co., California. By Laurence M. Klauber, May 4, 1935.

*Paratypes*.—SDSNH 22260, 22261, 22295, 22297, 22298, 22741, 22954, 22955, 23027, 23386, 23387, 23750-23756, 23758-23761, 23815, 23846-23848, 23911-23913, 23918-23923, 23951, 23995-23997 all from very near the type-locality.

***Pituophis catenifer bimaris* Klauber (1946)**

Trans. San Diego Soc. Nat. Hist. 11(1):1-40 (p. 7).

*Holotype*.—SDSNH 32621 an adult male; Santa Gertrudis, near El Arco (lat. 28°N), Baja California, Mexico. By Robert S. Hoard, August, 1939.

*Paratypes*.—All from Baja California, Mexico, as follows: SDSNH 2934, 2935 El Refugio (northeast of Magdalena Bay); SDSNH 32523 18 mi N of Punta Prieta (lat. 27°N); SDSNH 3813, 11553 San Ignacio; SDSNH 31032 Bahia Thurtoe (1 mi S of Bahia Tortuga); SDSNH 17562 and 17563 Rancho Las Flores (12 mi E of El Arco); SDSNH 1129, 1181 El Mármol.

*Remarks*.—= *Pituophis melanoleucus bimaris* according to Smith and Kennedy (1951, Herpetologica 7(3):93-96).

***Pituophis catenifer coronalis* Klauber (1946)**

Trans. San Diego Soc. Nat. Hist. 11(1):1-40 (p. 19).

*Holotype*.—SDSNH 20229 an adult female; South Coronado Island, Baja California Norte, Mexico. By Philip M. Klauber, June 11, 1933.

*Paratype*.—SDSNH 11365 Coronado Islands, Baja California Norte, Mexico (restricted to South Coronado Island by Klauber, *ibid* p. 20).

*Remarks*.—= *Pituophis melanoleucus coronalis* according to Smith and Kennedy (1951, Herpetologica 7(3):93-96).

***Pituophis catenifer fuliginatus* Klauber (1946)**

Trans. San Diego Soc. Nat. Hist. 11(1):1-40 (p. 14).

*Holotype*.—SDSNH 17449 a young adult female; San Martin Island, off the west coast of Baja California, Mexico. By Lewis W. Walker, July 11, 1939.

*Paratypes*.—SDSNH 17463, 17464 Topotypes.

*Remarks*.—= *Pituophis melanoleucus fuliginatus* according to Smith and Kennedy (1951, Herpetologica 7(3):93-96).

***Pituophis catenifer pumilus* Klauber (1946)**

Trans. Soc. Diego Soc. Nat. Hist. 11(2):41-48 (p. 41).

*Holotype*.—SDSNH 17238 a young adult male; Santa Cruz Island, Santa Barbara Co., California. By Norman Bilderback, May 5, 1938.

*Remarks*.—= *Pituophis melanoleucus pumilus* according to Smith and Kennedy (1951, Herpetologica 7(3):93-96).

***Rhinochelus lecontei clarus* Klauber (1941)**

Trans. San Diego Soc. Nat. Hist. 9(29):289-332 (p. 308).

**Holotype.**—SDSNH 31440 an adult male; Borrego Valley, 2 mi N of The Narrows, San Diego Co., California. By Richard Neil, May 7, 1939.

**Paratypes.**—As follows: San Diego County: SDSNH 2631, 11288, 26815, 28650, 31491 Yaqui Well; SDSNH 11349 La Puerta; SDSNH 16998, 26816 San Felipe Valley; SDSNH 17009, 25632, 20849, 20850, 28755, 33022 The Narrows; SDSNH 31445 5 mi W of The Narrows; SDSNH 23442 Benson's Dry Lake; SDSNH 29078, 32993 Borrego Valley; SDSNH 29110, 29514, 33398 Sentenac Canyon (vicinity); SDSNH 33021, 33049, 33060 Scissors Crossing (vicinity). Riverside County: SDSNH 28670 Cathedral City; SDSNH 31503 Indio; SDSNH 32137 Palm Springs R.R. Station.

**Remarks.**—= *Rhinochelus lecontei lecontei* according to Shannon and Humphrey (1963, Herpetological 19(3):153–160). See also Medica (1975, SSAR Cat. Amer. Amphib. Rept. 175.2).

***Salvadora grahamiae virgulnea* Bogert (1935)**

Bull. So. California Acad. Sci. 34(1):88–94 (p. 89).

**Holotype.**—SDSNH 12025 a young adult male; Deerhorn Flat, San Diego Co., California. By F. E. Walker, June 29, 1929.

**Remarks.**—= *Salvadora hexalepis virgulnea* according to Schmidt (1940, Zool. Ser. Field Mus. Nat. Hist. 24:143–150).

***Salvadora hexalepis klauberi* Bogert (1945)**

Am. Mus. Novit. 1285:1–14 (p. 2).

**Holotype.**—SDSNH 20912 an adult male; Cape San Lucas, Baja California, Mexico. By Fred Lewis, August 6, 1933 (preserved).

**Paratypes.**—All from Baja California as follows: SDSNH 3827 San Ignacio; SDSNH 20466, 20511, 20858 Cape San Lucas; SDSNH 30385 3 mi S of Canipole, NW of Loreto; SDSNH 30386 5 mi N of San Xavier Mission; SDSNH 30387 Loreto.

***Salvadora hexalepis mojavensis* Bogert (1945)**

Am. Mus. Novit. 1285:1–14 (p. 6).

**Paratypes.**—As follows: Arizona: Mojave Co.: SDSNH 17315 Lucky Star Mine, Chemehuevis Mountains; SDSNH 25385 White Hills, 28 mi N of Chloride. Coconino Co.: SDSNH 34439 9 mi W of Cameron. California: Inyo Co.: SDSNH 25384 Towne's Pass, Panamint Mountains; SDSNH 28578 Linnie; SDSNH 32827 Daylight Pass, Funeral Mountains; SDSNH 34100 3 mi SW of Wildrose Station. Kern Co.: SDSNH 25864 2 mi N of Grapevine Station; SDSNH 26130 20 mi S of Inyokern. San Bernardino Co.: SDSNH 4400, 4401, 33446 Mountain Pass, Ivanpah Mountains; SDSNH 8503 Twenty-nine Palms; SDSNH 10692 Klinefelter; SDSNH 33951 Hawes; SDSNH 35896 7 mi W of Red Pass, NE of Barstow. Nevada: Clark Co.: SDSNH 25357 13 mi W of Indian Springs; SDSNH 25386 19 mi SE of Indian Springs near Corn Creek.

**Remarks.**—Holotype: AMNH 63000 an adult male.

***Sonora bancroftae* Klauber (1943)**

Trans. San Diego Soc. Nat. Hist. 10(4):69–70 (p. 69).

**Holotype.**—SDSNH 35077 a female; 2 mi E of San Jorge, Lower California, Mexico. By Mrs. Griffing [Margaret] Bancroft, April 10, 1942.

**Remarks.**—= *Sonora semiannulata* according to Frost (1983, Trans. Kansas Acad. Sci. 86(1):31–37).

***Sonora occipitalis klauberi* Stickel (1941)**

Bull. Chicago Acad. Sci. 6(7):135–140 (p. 138).

**Holotype.**—SDSNH 29647 an adult male; Tucson, Pima Co., Arizona. By C. T. Vorhies, June 3, 1938.

**Paratype.**—SDSNH 17115 3 mi SE of Picacho, Pinal Co., Arizona.

**Remarks.**—= *Chionactus occipitalis klauberi* according to Stickel (1943, Proc. Biol. Soc. Wash. 56:109–128).

***Sonora palarostris* Klauber (1937)**

Trans. San Diego Soc. Nat. Hist. 8(27):363–366 (p. 363).

*Holotype*.—SDSNH 26771 an adult male; 5 mi S of Magdalena, Sonora, Mexico. By George Lindsay, April, 1937.

*Remarks*.—= *Chionactis palarostris palarostris* according to Klauber (1951, Trans. San Diego Soc. Nat. Hist. 11(9):141–204).

***Tantilla eiseni transmontana* Klauber (1943)**

Trans. San Diego Soc. Nat. Hist. 10(5):71–74 (p. 71).

*Holotype*.—SDSNH 29273 an adult male; 1 mi E of Yaqui Well, San Diego Co., California. By Charles Shaw and Cyrus Perkins, June 6, 1938.

*Paratypes*.—From California as follows: Riverside Co.: SDSNH 33760, Palm Springs. San Diego Co.: SDSNH 2633, 2634 Yaqui Well; SDSNH 11260 La Puerta; SDSNH 32419, 33997 Sentenac Canyon.

*Remarks*.—= *Tantilla planiceps transmontana* according to Tanner (1966, Herpetologica 22(2):134–152) and *Tantilla planiceps* according to Cole and Hardy (1981: 268, Bull. Amer. Mus. Nat. Hist. 171(3):199–284), who regard the species as monotypic.

***Trimorphodon biscutatus semirutus* Smith (1943)**

Proc. U.S. Natl. Mus. 93(3169):393–504 (p. 492).

*Paratype*.—SDSNH 43401 10 mi N of Tafetán, Michoacan, Mexico.

*Remarks*.—= *Trimorphodon biscutatus biscutatus* according to Duellman (1954, Occ. Pap. Mus. Zool. Univ. Michigan 560:1–24). Holotype: USNM 110410 a male (cited as EHT-HMS 23619 in Smith 1943).

## ACKNOWLEDGMENTS

We are very grateful to James R. Dixon, Thomas H. Fritts, Darrel Frost, and Jay M. Savage for their reviews of earlier drafts. Marjorie Rea expertly typed the manuscript.

## CAUDATA

***Plethodon richmondi* Netting and Mittleman (1938)**

Ann. Carnegie Mus. 27:287–293 (p. 288).

*Paratype*.—SDSNH 32680 Oglebay Park near Wheeling, Ohio Co., West Virginia.

*Remarks*.—Holotype: CM 14189 an adult male. SDSNH 32680 was formerly CM 5296.